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[redacted]

2 August 1967

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TO : [redacted]

INFO:

Director of Logistics

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FROM: Chief, [redacted]

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SUBJ [redacted] Air Conditioning and Power House Projects

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Reference: [redacted]

1. In view of the reference Headquarters comments and the results of a meeting with the [redacted] Engineers, the following is proposed for the [redacted]tioning and Power House projects:

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A. Equipment location as outlined in the reference.

B. Two 60 ton chillers with four 30 ton open type compressors, each with separate motors and refrigerant circuits to be specified.

C. AHU-4 and AHU-5 sized for 9,000 - 10,000 CFM.

D. Automatic starting of spare chilled water pump upon failure of on-line unit to be included.

E. Booster blower deleted and AHU-3 installed. AHU-3 to be sized for 5,500 CFM and capable of operating against high static pressure of screen room; A&E says class two fan may be necessary.

F. Normally, AHU-1, AHU-3, AHU-4 and/or AHU-5 will be operating. AHU-2 will revert to backup status with AHU-1 taking its load of 12,740 CFM plus office load of 4,500 CFM, thus sizing AHU-1 for 18,000 CFM. If AHU-3 fails, AHU-1 will provide backup, and will be specified to handle high static pressure. AHU-2 would be turned on to handle part of AHU-1's normal load, and the damper in duct connecting AHU-1 and AHU-2 closed.

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G. Duct from AHU-1 to screen room to be relocated to connect into main duct above hallway to reduce duct losses and increase system flexibility by allowing AHU-2 to supply air to screen room.

H. Chilled water lines will be run underneath ceiling; however, will enter building through Chief [redacted] 25X1A office rather than classified area.

I. Addition of AHU-3 and AHU-5, increase in size of AHU-1 and relocation of chillers will increase total project cost approximately ten percent. A&E preparing closer cost estimate which we will furnish Headquarters via cable.

2. Following are answers to questions raised by Headquarters comments and which are resolved in the final drawings dated 18 May which were not sent to Headquarters. Figures quoted in the Headquarters comments appear in the pre-final drawings dated 8 May.

A. A&E included heat exchanger loads in calculating screen room load; actual load is 120,000 BTU.

B. A&E underestimated office area load. Recalculated load is 4,500 CFM. Increase due mainly to windows, infiltration air and equipment room load.

C. Figure given to A&E for Room C2 load was based on old figures; present load is 68,000 BTU.

25X1A 3. The [redacted] Power House design might be simplified and the cost reduced if the crane requirement stipulated by Headquarters is more exactly defined. Specifically, is the crane required to lift anything other than the flywheel, is it required to travel lengthwise and sideways or in one direction only? Please advise so that the Power House design can proceed. ACTION

4. To properly coordinate the Air Conditioning and Power House projects and ensure an orderly installation with minimum 25X1A downtime, we consider it essential to combine the two as recommended in [redacted] The two projects are closely related, and grave difficulties are anticipated should each be awarded to separate contractors. Therefore, with Headquarters concurrence, 25X1A we plan to direct the [redacted] to advertise the projects as one.

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5. Headquarters concurrence on these proposals is requested. If approved, we will direct the [redacted] to proceed with the pre-final drawings which will be forwarded to Headquarters for approval. 25X1A

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